

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for mitigating restenosis at a trauma site at which a stent is located within the vasculature comprising:

positioning a catheter adjacent the trauma site;

extending a sensor through a lumen in the catheter and through the stent to a position located outside of the catheter and outside of the stent; and

delivering a restenosis mitigating drug to the trauma site through the catheter

wherein the sensor comprises an analyte sensor, physiological parameter sensor, biological parameter sensor, biochemical parameter sensor, or chemical parameter sensor.

2. (Previously Presented) The method of Claim 1, further comprising locating the stent at the trauma site.

3. (Original) The method of Claim 2, wherein at least a portion of the catheter is positioned at an interior portion of the stent.

4. (Original) The method of Claim 1, wherein the restenosis mitigating drug is insulin.

5. (Original) The method of Claim 1, wherein the restenosis mitigating drug is delivered upstream from the trauma site.

6. (Original) The method of Claim 1, wherein the restenosis mitigating drug is dispersed to the trauma site through apertures in the catheter.

7. (Original) The method of Claim 1, wherein the catheter is a balloon catheter.

8. (Original) The method of Claim 7, further comprising disposing the restenosis mitigating drug on a balloon portion of the balloon catheter.

9. (Original) The method of Claim 8, wherein the balloon catheter abuts a wall of the vasculature at the trauma site after the balloon catheter is expanded.
10. (Original) The method of Claim 9, further comprising transferring the restenosis mitigating drug to the trauma site when the balloon catheter abuts the wall of the vasculature.
11. (Original) The method of Claim 9, wherein the restenosis mitigating drug is dispersed to the trauma site through apertures in the balloon catheter.
12. (Previously Presented) The method of Claim 1, further comprising sensing an analyte with the sensor.
13. (Original) The method of Claim 12, wherein the delivery of the restenosis mitigating drug is modified in response to the sensing of the analyte.
14. (Previously Presented) The method of Claim 12, wherein the analyte is glucose.
15. (Original) The method of Claim 1, further comprising adjusting a flow rate of the restenosis mitigating drug.
16. (Original) The method of Claim 6, further comprising adjusting a dispersal pattern of the restenosis mitigating drug.
17. (Original) The method of Claim 1, wherein the catheter is positioned prior to a stent procedure.
18. (Original) The method of Claim 1, wherein the catheter is positioned subsequent to a stent procedure.
19. (Original) The method of Claim 1, wherein the restenosis mitigating drug is nitric oxide.
20. (Original) The method of Claim 1, wherein the restenosis mitigating drug is an antibody.
21. (Original) The method of Claim 1, wherein the restenosis mitigating drug is a steroid.

22. (Original) The method of Claim 1, wherein the restenosis mitigating drug is an interleukin.

23. (Original) The method of Claim 1, wherein the restenosis mitigating drug is a blood thinner.

24.-48. (Cancelled)

49. (Previously Presented) The method of claim 1, wherein the sensor has a sensing element and wherein extending a sensor through a lumen in the catheter and through the stent comprises extending the sensor to position at which the sensing element is located on one side of and spaced from the stent.

50. (Previously Presented) The method of claim 1, wherein the sensor has a sensing element and wherein the catheter includes an outlet for delivering the restenosis mitigating drug and wherein delivering a restenosis mitigating drug comprises positioning the catheter relative to the stent so that the outlet is located on the opposite side of the stent relative to the side of the stent at which the sensing element is located.

51. (Previously Presented) The method of claim 1, wherein the sensor has a sensing element and wherein the catheter includes an outlet for delivering the restenosis mitigating drug and wherein delivering a restenosis mitigating drug comprises positioning the catheter relative to the stent so that the stent is located between the outlet and the sensing element.

52. (Currently Amended) A method for mitigating restenosis at a site within a vasculature, the method comprising:

positioning a stent at the site;

positioning a catheter adjacent the site;

extending a sensor through the catheter and through the stent to a position located outside of the catheter and outside of the stent, while the stent is at the site; and

delivering infusion medium to the trauma site through the catheter;

wherein the sensor comprises an analyte sensor, physiological parameter sensor, biological parameter sensor, biochemical parameter sensor, or a chemical parameter sensor.

53. (Previously Presented) A method of claim 52, wherein the sensor has a sensing element and wherein the catheter includes an outlet for delivering the infusion medium and wherein delivering infusion medium comprises positioning the catheter relative to the stent so that the stent is located between the outlet and the sensing element.

54. (Previously Presented) The method of claim 52, wherein the sensor has a sensing element and wherein extending a sensor through the catheter and through the stent comprises extending the sensor to position at which the sensing element is located on one side of and spaced from the stent.